

=> fil reg  
FILE 'REGISTRY' ENTERED AT 12:15:09 ON 16 NOV 2005

=> d his ful

FILE 'HCAPLUS' ENTERED AT 08:09:33 ON 16 NOV 2005

L1 12 SEA ABB=ON PLU=ON OLECH L?/AU  
D SCAN TI  
L2 1 SEA ABB=ON PLU=ON L1 AND CARRIER/TI  
D SCAN  
D ALL  
SEL RN

FILE 'REGISTRY' ENTERED AT 08:11:18 ON 16 NOV 2005

L3 3 SEA ABB=ON PLU=ON (2440-60-0/BI OR 4067-16-7/BI OR  
617-52-7/BI)  
D SCAN  
ACT BAR061/Q  
-----

L4 STR  
-----

L5 SCR 1838 OR 1918 OR 1929 OR 2016 OR 2021  
L6 50 SEA SSS SAM L4 NOT L5  
L7 QUE ABB=ON PLU=ON L4 NOT L5  
L8 STR L4  
L9 50 SEA SSS SAM L8 NOT L5  
D QUE STAT L6  
L10 QUE ABB=ON PLU=ON L4 NOT L5

FILE 'LREGISTRY' ENTERED AT 08:44:25 ON 16 NOV 2005

L11 STR L4  
L12 STR L4  
L13 STR L4

FILE 'REGISTRY' ENTERED AT 08:53:06 ON 16 NOV 2005

L14 81980 SEA SSS FUL L4 NOT L5  
L15 0 SEA SUB=L14 SSS SAM L11  
L16 50 SEA SUB=L14 SSS SAM L12  
L17 50 SEA SUB=L14 SSS SAM L13  
D QUE STAT L15  
D QUE STAT L16  
D QUE STAT L17  
L18 STR  
L19 50 SEA SUB=L14 SSS SAM L18  
L20 26595 SEA SUB=L14 SSS FUL L18

FILE 'HCAPLUS' ENTERED AT 09:38:27 ON 16 NOV 2005

L21 8774 SEA ABB=ON PLU=ON L20  
L22 0 SEA ABB=ON PLU=ON L21 (L) AMPHOLYT?  
L23 0 SEA ABB=ON PLU=ON L21 AND AMPHOLYT?  
L24 56 SEA ABB=ON PLU=ON L21 AND ISOELEC?  
L25 31 SEA ABB=ON PLU=ON L21 AND ISOELEC? (2A) FOCUS?  
L26 0 SEA ABB=ON PLU=ON L25 AND (PLASTIC? OR POLYMER?)/SC,S  
X  
D L25 HITSTR  
L27 0 SEA ABB=ON PLU=ON L25 AND HIGH(3A) PH  
L28 3 SEA ABB=ON PLU=ON L25 AND PH  
D SCAN HIT  
L29 105 SEA ABB=ON PLU=ON L21 AND (PLASTIC? OR POLYMER?)/SC,S  
X

L30 0 SEA ABB=ON PLU=ON L29 AND ISOELEC?  
L31 2 SEA ABB=ON PLU=ON L29 AND AMPHO?  
D SCAN  
L32 1 SEA ABB=ON PLU=ON L25 AND AMPHO?  
D SCAN  
D HIT  
L33 4 SEA ABB=ON PLU=ON L21(L) BUFFER?  
D SCAN HIT  
L34 1459 SEA ABB=ON PLU=ON L21(L) PREP/RL  
L35 9 SEA ABB=ON PLU=ON L34 AND PLASTIC?/SC  
D SCAN  
L36 15 SEA ABB=ON PLU=ON L34 AND PLASTIC?/SC, SX  
D HITSTR  
D HITSTR 2  
D HITSTR 3

FILE 'LREGISTRY' ENTERED AT 10:25:31 ON 16 NOV 2005

L37 STR L18

FILE 'REGISTRY' ENTERED AT 10:35:17 ON 16 NOV 2005

L38 50 SEA SUB=L14 SSS SAM L37

DIS SIA L37

D QUE STAT L38

L39 8524 SEA SUB=L14 SSS FUL L37

FILE 'HCAPLUS' ENTERED AT 10:41:12 ON 16 NOV 2005

L40 3407 SEA ABB=ON PLU=ON L39

L41 527 SEA ABB=ON PLU=ON L40(L) PREP/RL

L42 2 SEA ABB=ON PLU=ON L41 AND PLASTIC?/SC, SX

D SCAN

L43 3 SEA ABB=ON PLU=ON L40 AND AMPHO?

D SCAN HIT

L44 8 SEA ABB=ON PLU=ON L40 AND ISOELEC (3A) FOCUS?

D SCAN HIT

L45 4 SEA ABB=ON PLU=ON L40 AND PLASTIC?/SC, SX

D SCAN TI

L46 49 SEA ABB=ON PLU=ON L40 AND BUFFER?

D HIT

L47 2 SEA ABB=ON PLU=ON L46 AND (PLASTIC? OR POLYMER?)/SC, S

X

L48 15 SEA ABB=ON PLU=ON L36 OR L42

D SCAN L43 TI

D SCAN L25 TI

D QUE STAT L40

L49 9 SEA ABB=ON PLU=ON L40 AND POLYMER?/SC, SX

D SCAN TI

D SCAN L28 TI

FILE 'LREGISTRY' ENTERED AT 11:22:53 ON 16 NOV 2005

L50 STR L37

FILE 'REGISTRY' ENTERED AT 11:31:24 ON 16 NOV 2005

L51 33 SEA SUB=L14 SSS SAM L50

D QUE STAT L51

FILE 'LREGISTRY' ENTERED AT 11:39:25 ON 16 NOV 2005

L52 STR L50

FILE 'REGISTRY' ENTERED AT 11:41:10 ON 16 NOV 2005

L53 15 SEA SUB=L14 SSS SAM L52

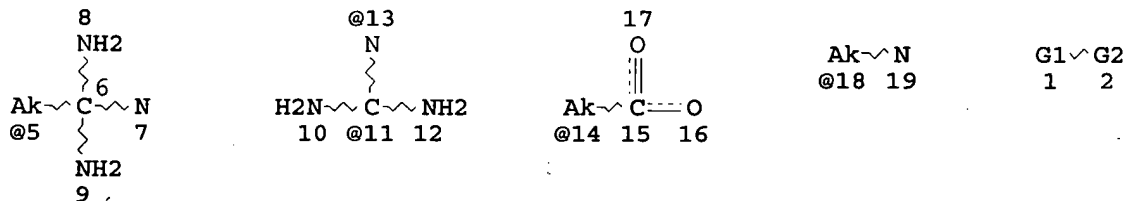
D QUE STAT L53  
 SCR 1995  
 L54 13 SEA SUB=L14 SSS SAM L52 AND L54  
 L55 D SCAN  
 D QUE STAT L55  
 L56 220 SEA SUB=L14 SSS FUL L52 AND L54  
 SAV L56 BAR061A/A  
 SAV L39 BAR061B/A  
 SAV L20 BAR061C/A

FILE 'HCAPLUS' ENTERED AT 12:00:23 ON 16 NOV 2005

L57 137 SEA ABB=ON PLU=ON L56  
 L58 9 SEA ABB=ON PLU=ON L57 AND AMPHO?  
 L59 0 SEA ABB=ON PLU=ON L58 AND (PLASTIC? OR POLYMER?)/SC,S  
 X  
 L60 22 SEA ABB=ON PLU=ON L57 AND (PLASTIC? OR POLYMER?)/SC,S  
 X  
 L61 0 SEA ABB=ON PLU=ON L60 AND ISOELEC?  
 L62 0 SEA ABB=ON PLU=ON L60 AND PH  
 L63 18 SEA ABB=ON PLU=ON L57 AND PH  
 L64 0 SEA ABB=ON PLU=ON L63 AND (PLASTIC? OR POLYMER?)/SC,S  
 X  
 L65 37 SEA ABB=ON PLU=ON L22 OR L23 OR L26 OR L27 OR L30 OR  
 L48 OR L59 OR L60 OR L61 OR L62 OR L64

=> d que 165

L4 STR



$$\begin{array}{c}
 \text{O} \sim \text{C} \sim \text{O} \\
 20 \quad @21 \quad @22
 \end{array}$$

$$\begin{array}{c}
 \text{Ak} \sim \text{G1} \\
 23 \quad 24
 \end{array}$$

VAR G1=N/21/22/11/13

VAR G2=5/14/18

NODE ATTRIBUTES:

CONNECT IS E2 RC AT 5

CONNECT IS E2 RC AT 14

CONNECT IS E2 RC AT 18

CONNECT IS E2 RC AT 23

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

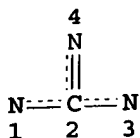
RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 22

STEREO ATTRIBUTES: NONE

L5 SCR 1838 OR 1918 OR 1929 OR 2016 OR 2021

L14 81980 SEA FILE=REGISTRY SSS FUL L4 NOT L5  
L18 STR

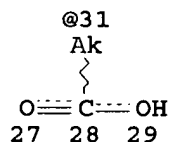
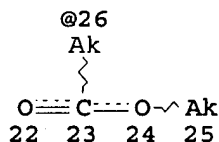
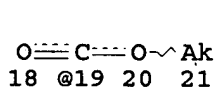
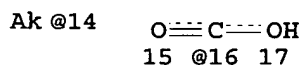
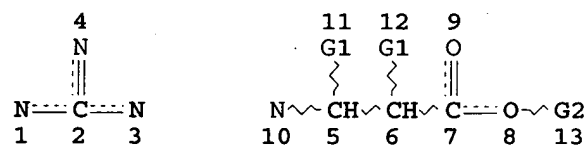


NODE ATTRIBUTES:  
DEFAULT MLEVEL IS ATOM  
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:  
RING(S) ARE ISOLATED OR EMBEDDED  
NUMBER OF NODES IS 4

STEREO ATTRIBUTES: NONE

L20 26595 SEA FILE=REGISTRY SUB=L14 SSS FUL L18  
L21 8774 SEA FILE=HCAPLUS ABB=ON PLU=ON L20  
L22 0 SEA FILE=HCAPLUS ABB=ON PLU=ON L21 (L) AMPHOLYT?  
L23 0 SEA FILE=HCAPLUS ABB=ON PLU=ON L21 AND AMPHOLYT?  
L25 31 SEA FILE=HCAPLUS ABB=ON PLU=ON L21 AND ISOELEC? (2A) FO  
CUS?  
L26 0 SEA FILE=HCAPLUS ABB=ON PLU=ON L25 AND (PLASTIC? OR  
POLYMER?)/SC,SX  
L27 0 SEA FILE=HCAPLUS ABB=ON PLU=ON L25 AND HIGH(3A) PH  
L29 105 SEA FILE=HCAPLUS ABB=ON PLU=ON L21 AND (PLASTIC? OR  
POLYMER?)/SC,SX  
L30 0 SEA FILE=HCAPLUS ABB=ON PLU=ON L29 AND ISOELEC?  
L34 1459 SEA FILE=HCAPLUS ABB=ON PLU=ON L21 (L) PREP/RL  
L36 15 SEA FILE=HCAPLUS ABB=ON PLU=ON L34 AND PLASTIC?/SC,SX  
L37 STR



VAR G1=H/14/16/19/31/26  
VAR G2=H/14

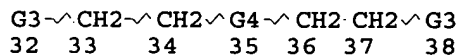
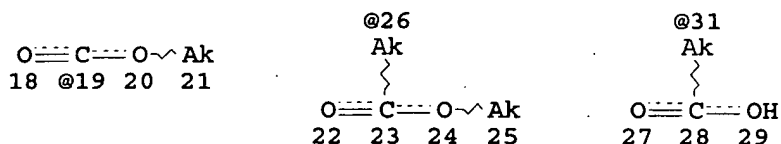
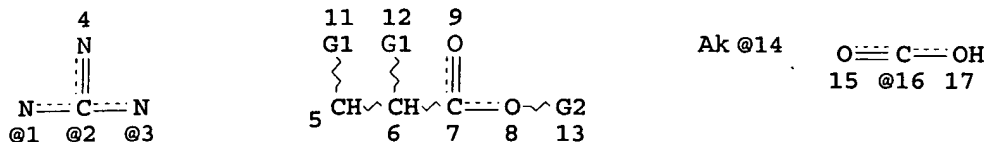
NODE ATTRIBUTES:  
DEFAULT MLEVEL IS ATOM  
DEFAULT ECLEVEL IS LIMITED  
ECOUNT IS M1-X4 C AT 14  
ECOUNT IS M1-X4 C AT 21  
ECOUNT IS M1-X4 C AT 25  
ECOUNT IS M1-X4 C AT 26  
ECOUNT IS M1-X4 C AT 31

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED  
NUMBER OF NODES IS 30

STEREO ATTRIBUTES: NONE

L39 8524 SEA FILE=REGISTRY SUB=L14 SSS FUL L37  
L40 3407 SEA FILE=HCAPLUS ABB=ON PLU=ON L39  
L41 527 SEA FILE=HCAPLUS ABB=ON PLU=ON L40 (L) PREP/RL  
L42 2 SEA FILE=HCAPLUS ABB=ON PLU=ON L41 AND PLASTIC?/SC, SX  
  
L48 15 SEA FILE=HCAPLUS ABB=ON PLU=ON L36 OR L42  
L52 STR



VAR G1=H/14/16/19/31/26  
VAR G2=H/14  
VAR G3=N/1/2  
VAR G4=N/1-34 2-36/2-34 1-36/1-34 3-36

NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

ECOUNT IS M1-X4 C AT 14

ECOUNT IS M1-X4 C AT 21

ECOUNT IS M1-X4 C AT 25

ECOUNT IS M1-X4 C AT 26

ECOUNT IS M1-X4 C AT 31

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 36

STEREO ATTRIBUTES: NONE

L54 SCR 1995  
L56 220 SEA FILE=REGISTRY SUB=L14 SSS FUL L52 AND L54  
L57 137 SEA FILE=HCAPLUS ABB=ON PLU=ON L56  
L58 9 SEA FILE=HCAPLUS ABB=ON PLU=ON L57 AND AMPHO?  
L59 0 SEA FILE=HCAPLUS ABB=ON PLU=ON L58 AND (PLASTIC? OR  
POLYMER?)/SC, SX  
L60 22 SEA FILE=HCAPLUS ABB=ON PLU=ON L57 AND (PLASTIC? OR  
POLYMER?)/SC, SX  
L61 0 SEA FILE=HCAPLUS ABB=ON PLU=ON L60 AND ISOELEC?  
L62 0 SEA FILE=HCAPLUS ABB=ON PLU=ON L60 AND PH  
L63 18 SEA FILE=HCAPLUS ABB=ON PLU=ON L57 AND PH  
L64 0 SEA FILE=HCAPLUS ABB=ON PLU=ON L63 AND (PLASTIC? OR  
POLYMER?)/SC, SX

L65

37 SEA FILE=HCAPLUS ABB=ON PLU=ON L22 OR L23 OR L26 OR  
L27 OR L30 OR L48 OR L59 OR L60 OR L61 OR L62 OR L64

=> fil hcap  
FILE 'HCAPLUS' ENTERED AT 12:15:27 ON 16 NOV 2005  
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FILE LAST UPDATED: 15 Nov 2005 (20051115/ED)

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=> d l65 1-37 ibib abs hitstr hitind

L65 ANSWER 1 OF 37 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2005:1048815 HCAPLUS

DOCUMENT NUMBER: 143:327403

TITLE: Heat-resistant epoxy resin compositions  
containing aliphatic or alicyclic polyamine  
borates and copper-clad laminates using the  
same

INVENTOR(S): Obayashi, Akira; Haraguchi, Kazutoshi

PATENT ASSIGNEE(S): Kawamura Institute of Chemical Research, Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 16 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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JP 2005264106	A2	20050929	JP 2004-82476	

2004  
0322

PRIORITY APPLN. INFO.: JP 2004-82476

2004  
0322

AB The composition with improved glass transition temperature, good storage stability and heat resistance, comprises (A) an epoxy resin, (B) a aliphatic or alicyclic polyamine borate, and (C) a epoxy resin curing